

MLG1005S82NJTD25



|                      |  |
|----------------------|--|
| <b>Applications</b>  | Automotive Grade   |
| <b>Feature</b>       | <div style="border: 1px solid black; padding: 2px;">Multilayer</div> <div style="border: 1px solid black; padding: 2px;">Non-Mag Core</div> <div style="border: 1px solid black; padding: 2px;">AEC-Q200</div> |
| <b>Series   Type</b> | MLG  |
| <b>Status</b>        | Production   |
| <b>Brand</b>         | TDK  |



| Size                         |                |
|------------------------------|----------------|
| Length(L)                    | 1.00mm ±0.05mm |
| Width(W)                     | 0.50mm ±0.05mm |
| Thickness(T)                 | 0.50mm ±0.05mm |
| Recommended Land Pattern (A) | 0.50mm Nom.    |
| Recommended Land Pattern (B) | 0.40mm Nom.    |
| Recommended Land Pattern (C) | 0.50mm Nom.    |

| Electrical Characteristics     |                    |
|--------------------------------|--------------------|
| Inductance                     | 82nH ±5% at 100MHz |
| Rated Current                  | 200mA              |
| DC Resistance [Typ.]           | 1.01Ω              |
| DC Resistance [Max.]           | 1.6Ω               |
| Self Resonant Frequency [Min.] | 700MHz             |
| Self Resonant Frequency [Typ.] | 1GHz               |
| Q [Min.]                       | 8 at 100MHz        |
| Q [Typ.]                       | 11 at 100MHz       |

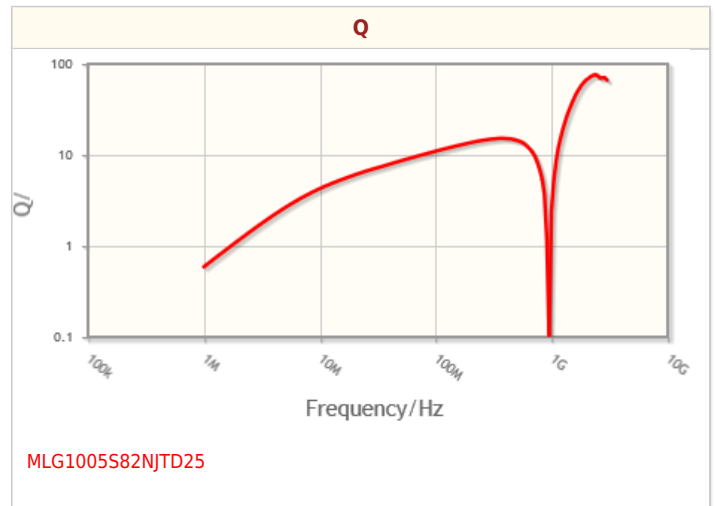
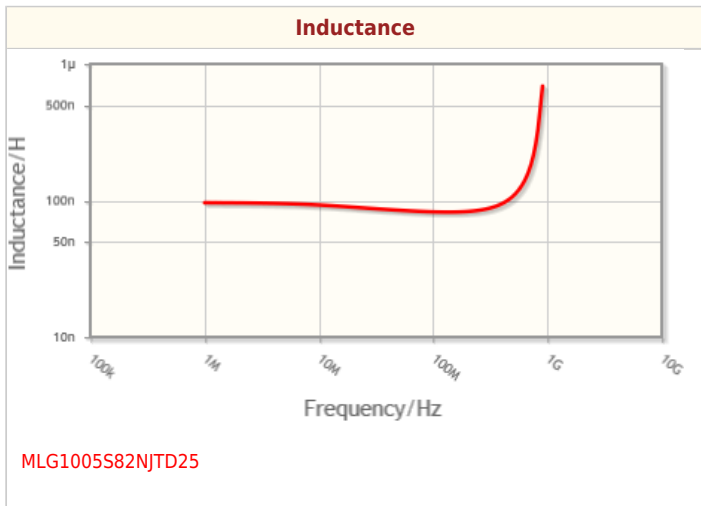
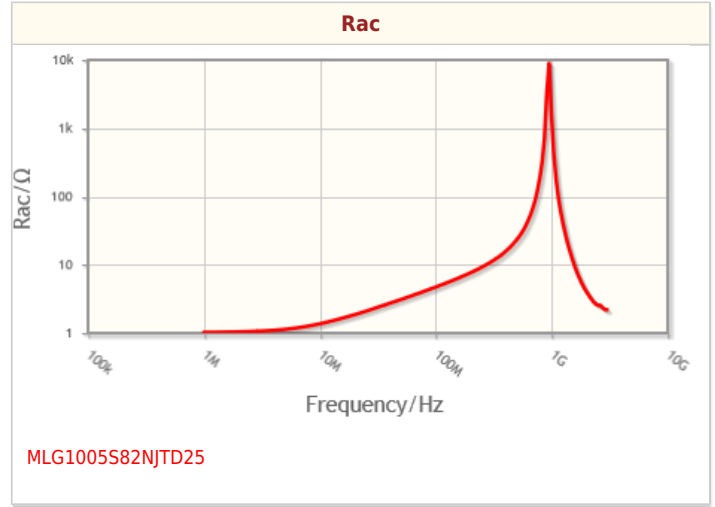
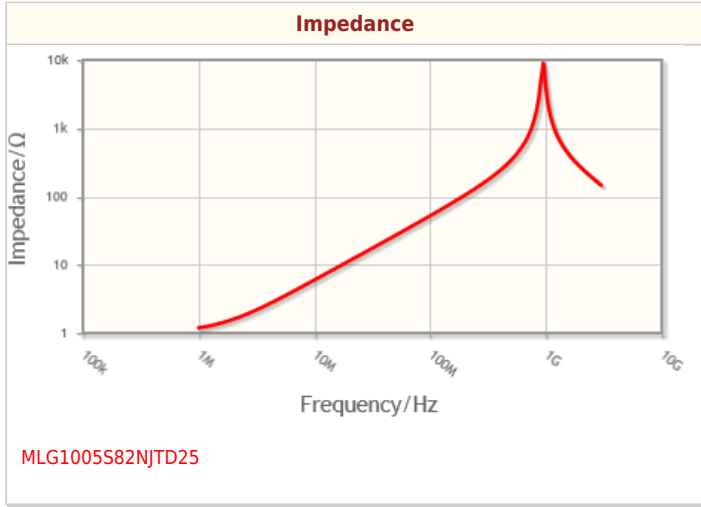
| Other   |                                    |
|---|------------------------------------|
| Operating Temp. Range (Including Self-Temp. Rise) | -55 to 125°C                       |
| Soldering Method                                  | Reflow<br>Iron Soldering           |
| AEC-Q200  | Yes                                |
| Packing   | Punched (Paper)Taping [180mm Reel] |
| Package Quantity                                  | 10000pcs                           |
| Weight  | 0.001g                             |

! Images are for reference only and show exemplary products.  
! This PDF document was created based on the data listed on the TDK Corporation website.  
! All specifications are subject to change without notice.

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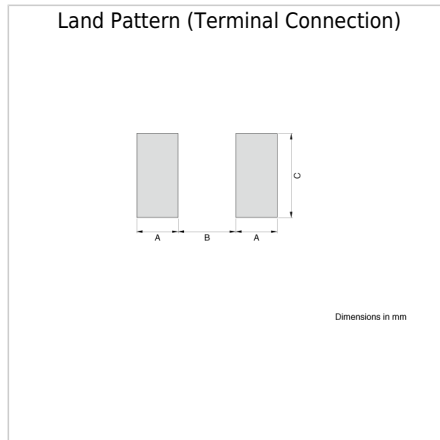
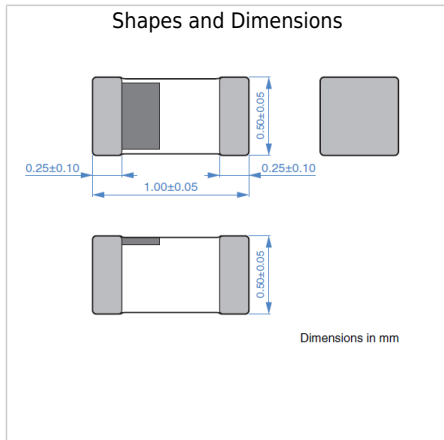
Characteristic Graphs(This is reference data, and does not guarantee the products characteristics.)



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## Associated Images



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